Web Services Work Group Status Report

Team 3 – Agencies: VRS, DHRM

Vendor: SilverStream Software

June 20, 2002

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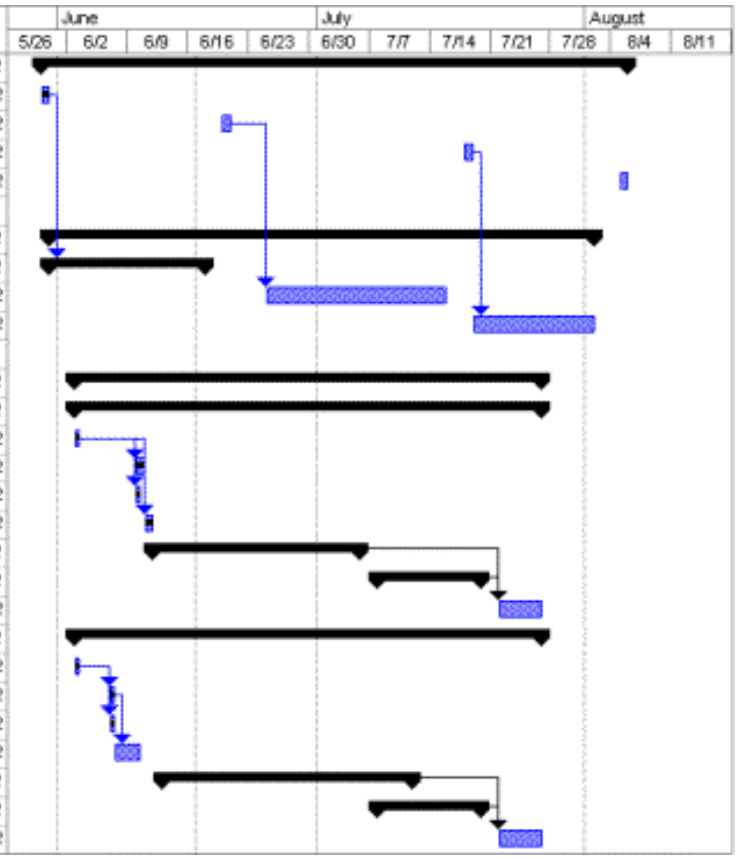
1. Project Plan (Schedule)

High-level project plan with list of meetings, time and location giving percent complete.

Task Name	Duration	Start	Finish
COTS Meetings	**48 days**	**Thu 5/30/02**	**Mon 8/5/02**
May Meeting	1 day	Thu 5/30/02	Thu 5/30/02
June Meeting	1 day	Thu 6/20/02	Thu 6/20/02
July Meeting	1 day	Thu 7/18/02	Thu 7/18/02
August Meeting	1 day	Mon 8/5/02	Mon 8/5/02
Workgroup Report	**45 days**	**Fri 5/31/02**	**Thu 8/1/02**
First Draft	**12 days**	**Fri 5/31/02**	**Mon 6/17/02**
Second Draft	15 days	Tue 6/25/02	Mon 7/15/02
Final	10 days	Fri 7/19/02	Thu 8/1/02
Prototype Development	**40 days**	**Mon 6/3/02**	**Fri 7/26/02**
VRS Web Services	**40 days**	**Mon 6/3/02**	**Fri 7/26/02**
HW/SW Reqs Meeting	4 hrs	Mon 6/3/02	Mon 6/3/02
Installation	8 hrs	Mon 6/10/02	Mon 6/10/02
Bus Fn Reqs Meetings	4 hrs	Mon 6/10/02	Mon 6/10/02
Build Login Component	8 hrs	Tue 6/11/02	Tue 6/11/02
Build Produce WS Components	**18 days**	**Wed 6/12/02**	**Fri 7/5/02**
Build Consume WS Components	**10 days**	**Mon 7/8/02**	**Fri 7/19/02**
Test & Revise Components	40 hrs	Mon 7/22/02	Fri 7/26/02
DHRM Web Services	**40 days**	**Mon 6/3/02**	**Fri 7/26/02**
HW/SW Reqs Meeting	4 hrs	Mon 6/3/02	Mon 6/3/02
Installation	4 hrs	Fri 6/7/02	Fri 6/7/02
Bus Fn Reqs Meetings	4 hrs	Fri 6/7/02	Fri 6/7/02
Build Login Component	8 hrs	Fri 6/7/02	Mon 6/10/02
Build Produce WS Components	**21 days**	**Thu 6/13/02**	**Thu 7/11/02**
Build Consume WS Components	**10 days**	**Mon 7/8/02**	**Fri 7/19/02**
Test & Revise Components	40 hrs	Mon 7/22/02	Fri 7/26/02



2. List of Team Name, Members, Roles and Responsibilities

Statement of team member roles and responsibilities – who is doing what. Highlight new/additional team members being brought in to assist since last report.

§VRS

§Sonja Korb – point of contact/project lead

§John Oliver – network engineer

§DHRM

§Belchoir Mira – point of contact/project lead

§Bradley Paul – computer systems senior engineer

§Allen Kass – network administrator

§SilverStream

§Chris Holcombe – point of contact

§Barbara Cain – service manager

§Tanzeena O'Brien – technical manager

§Mark Romiti – engineer

§Greg Rose - engineer

§Mitem

§Dave Pendergrass – regional sales manager

3. Proof-of-Concept Design

Attach general design of your application narrative, flow diagrams, etc. – whatever you think will adequately convey the team's approach in terms of design.

3.1 VRS/DHRM Users Login

The VRS/DHRM users must log in to initiate any of the processes described below.

•User enters a userid and a PIN, which is authenticated against the Security DB

•If valid, then take the user to a main portal page where they can change their address

•If invalid, then tell the user that authentication has failed

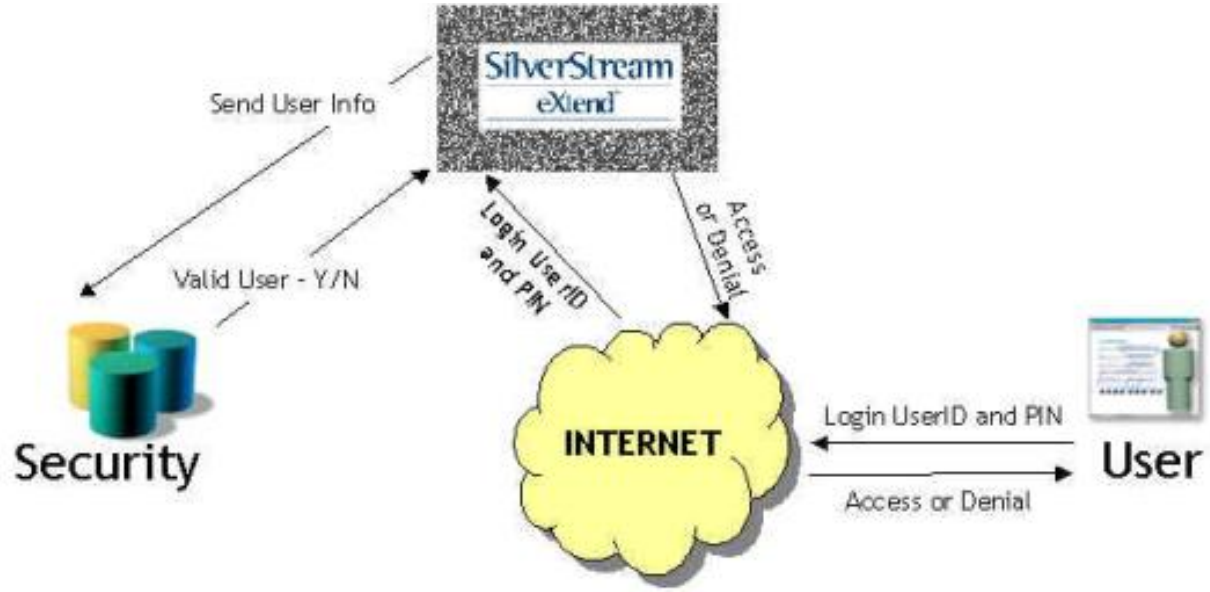


Figure 1 - VRS/DHRM

Users Login

3.2 VRS/DHRM Users – Change Address

Change Address Process

•User initiates an address change via Web Service

•SilverStream eXtend receives that request and does two things in parallel

•Sends the new address to VRS/DHRM

•Sends the change information to the other agencies via Web Service

•Once the VRS/DHRM and other agencies return status messages,

•Then the application will return all the statuses from all the agencies of the address change

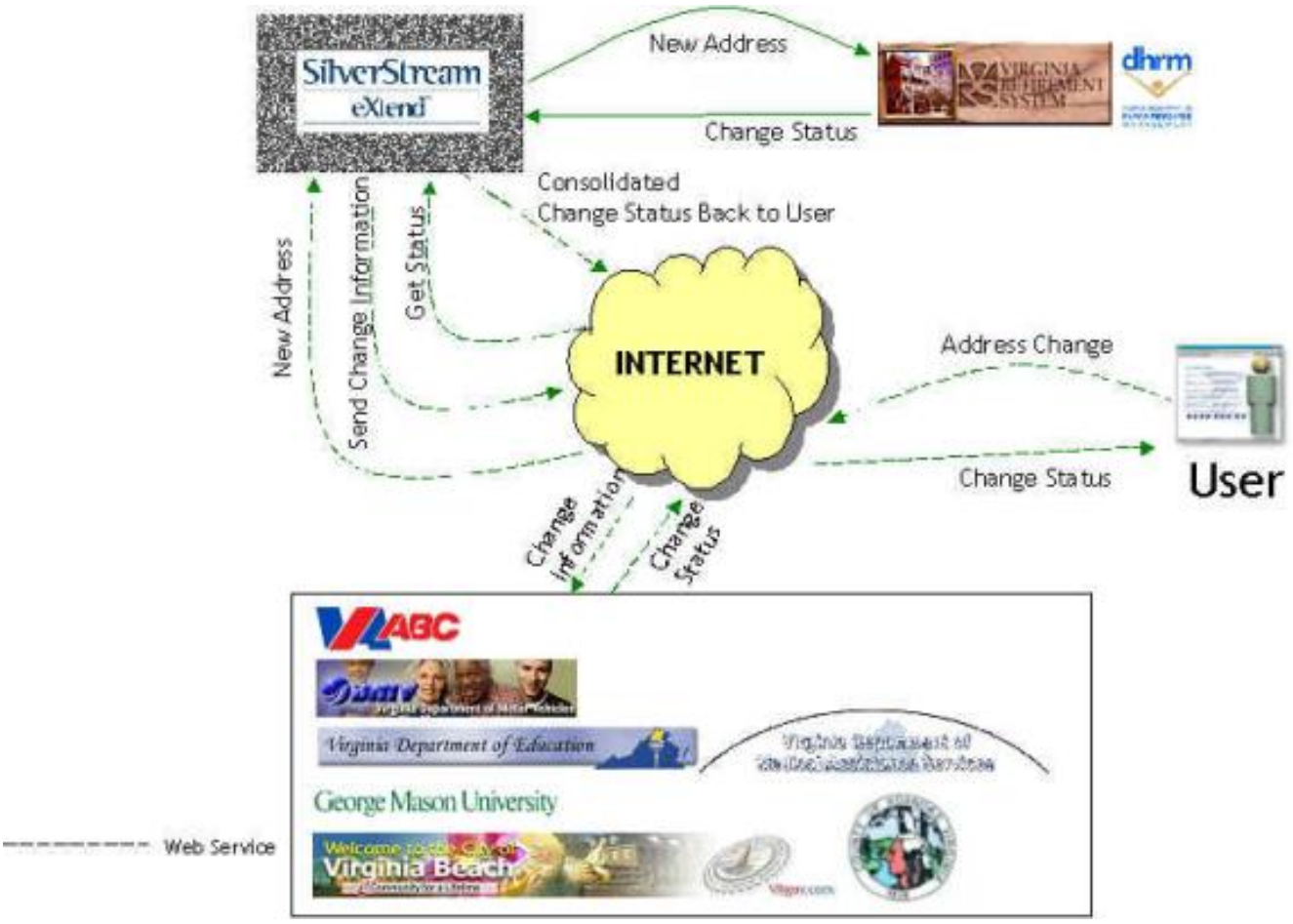


Figure 2 - VRS/DHRM Users – Change Address

3.3 Other Agency Users – Change Address

Change Address Process

•Another agency will initiate an address change via Web Service (machine to machine Web Service)

•VRS/DHRM will authenticate the individual making the change by making sure the user is in the Security DB.

•If in the Security DB then

•SilverStream eXtend receives that request and sends the new address to VRS/DHRM

•The VRS/DHRM system returns status messages,

•Else

•An error message is created for a status

•Then that status will be returned to the calling agency

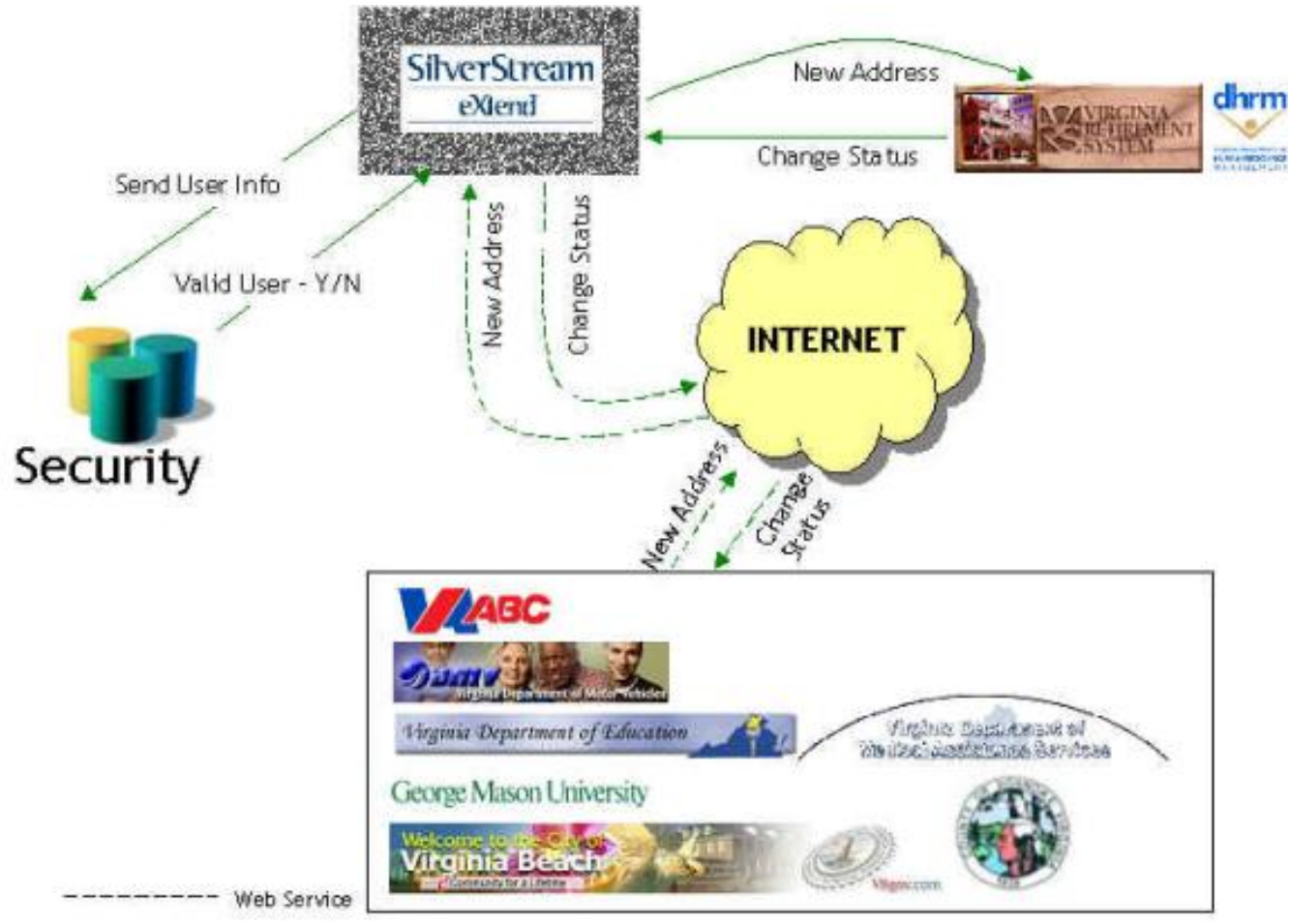


Figure 3 - Other Agency Users – Change Address

3.4 Get Current Address by UserID

Get Current Address by UserID

•Another agency will initiate a request to get the current address of a user via Web Service (machine to machine Web Service)

•VRS/DHRM will authenticate the addressed individual by making sure the user is in the Security DB.

•If in the Security DB then

•SilverStream eXtend will extract that information from the back end system

•Else

•An error message is created for a status

•Then the application will return the current address/status of a specified user to the requesting agency.

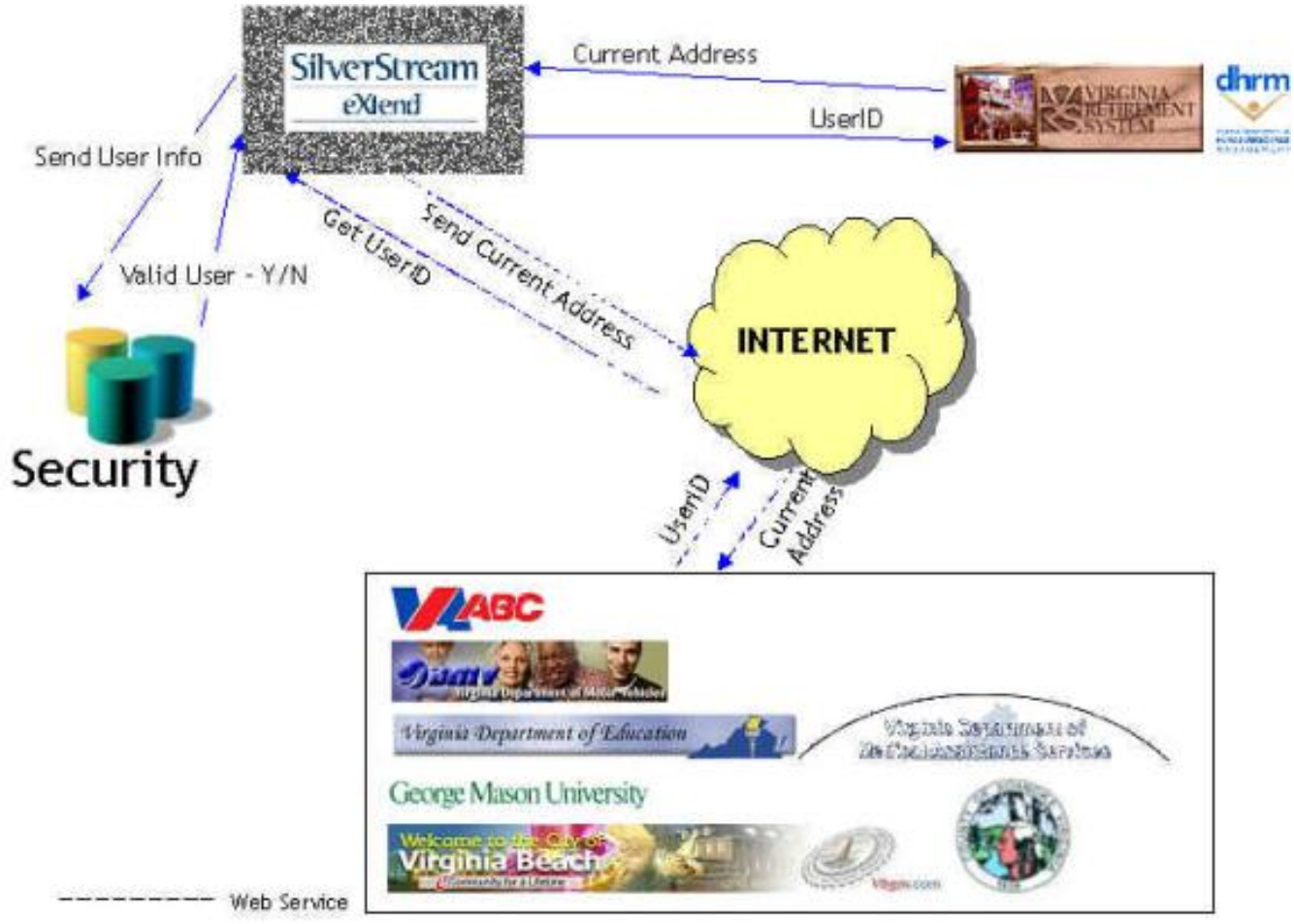


Figure 4 - Get Current Address by UserID

3.5 Get Current Address by Date

Get Address after a specified date:

•Another agency will initiate a request to get all the changed addresses after a specified date (machine to machine Web Service).

•VRS/DHRM will query the log file for each address change that has been propagated after the specified date.

•For each address change, SilverStream eXtend will extract that information from the back end system.

•Then the application will return all the changed addresses after a specified date to the requesting agency.

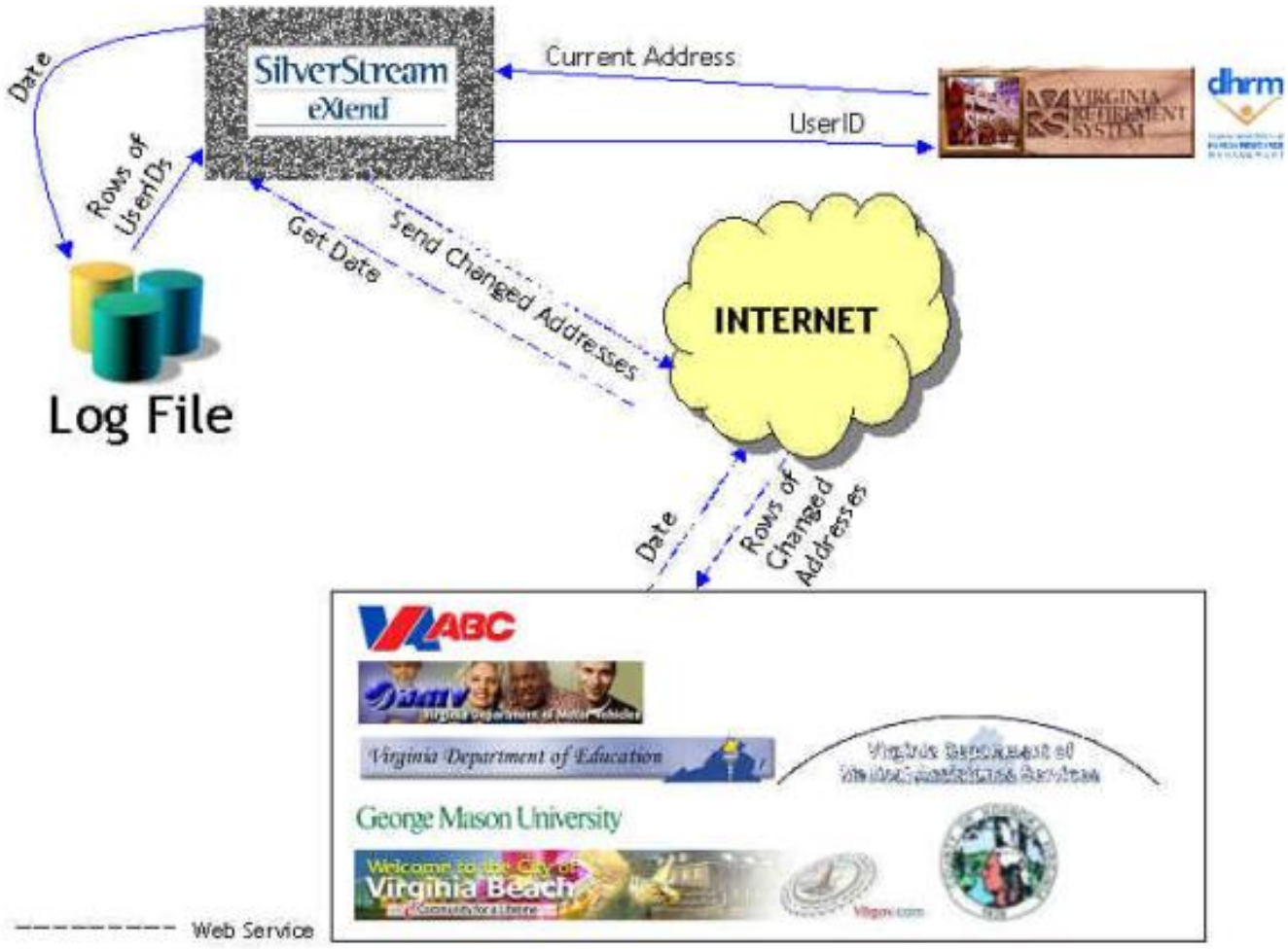


Figure 5 - Get Current Address by Date

3.6 Log File Description

Column Name	Data Type
PrimaryID	Numeric
OriginatorAgency	VarChar
AddressType	VarChar
AddressID	Numberic
TimeOfChange	DateTime
Propagated	Char

Column Name	Description
PrimaryID	This will be the primary key
OriginatorAgency	The will the agency name where the address change originated
AddressType	Home or Mailing address
AddressID	UserID of the person changing the name
TimeOfChange	When the address was changed
Propagated	Y – if it originated from us and we propagated to other agencies N – if it originated from another agency, hence we didn't propagate it.

4. Business/Functional Requirements

Statement of the specific business/functional requirements that are driving the team's application design.

Implement Proof-Of-Concept of Web Services on Change of Address representing the following agencies:

- Virginia Retirement System – change home and mailing address
- Department of Human Resources Management – change home address

Implement Proof-Of-Concept of Web Services on Get Address representing the following agencies:

- Virginia Retirement System – get home and mailing address
- Department of Human Resources Management – get home address

Change and get address enablement of the VRS system through a 3270 interface.

Change and get address enablement of the DHRM system through the Mitem interface.

Distribute a Change of Address request to the other agencies participating this Proof-Of-Concept.

5. Project Equipment Description

Full description of the hardware and software to be used, who is providing it and where it is located.

§Hardware

§1 Windows NT Workstation/Server 4.0 or Windows 2000 provided by VRS

§1 Windows NT Workstation/Server 4.0 or Windows 2000 provided by DHRM

§Both machines must have, at a minimum, 512 MB RAM and 260 MB disk space

§Both machines will be given external access so that other agencies can access these machines.

§Software – VRS and DHRM will each get the following, provided by SilverStream

§1 Not-for-resale SilverStream eXtend Application Server 3.7.4

§1 Not-for-resale SilverStream eXtend Composer Enterprise 3.5

§1 Not-for-resale SilverStream eXtend Composer Developer 3.5

§1 Not-fore-resale SilverStream eXtend Composer 3270 Connector (for VRS)

6. Additional Acquisition and Installation Activities

Indicate whether additional hardware and software were purchased or acquired for the proof-of-concept.

None

7. Server Requirements Changes

Describe changes to existing server or acquisition that will be needed before testing can begin. Describe the factors that influenced your decisions.

None

8. Networking Requirements Changes

Describe changes to existing network or procurement that will be needed before testing can begin. Describe the factors that influenced your decisions.

None

9. Training Requirements

Identify the technical and business training that has been or will be needed to prepare staff for proof-of-concept project.

§SilverStream will be dependent on both agencies personnel for infrastructure support, and Mitem support at DHRM.

§Training on SilverStream products:

§Application server

§Composer Server

§Composer Server

§3270 Connector (VRS)

§Training on the following concepts:

§Java, HTML, SOAP, WSDL, Web Services, XML, and XSL

10. Testing Plan

Attach a list showing all functions/processes to be tested. This should include descriptions of all testing scenarios and results.

§User submits an address change from a portal page.

§Result: address gets changed within VRS and DHRM and

§The address gets propagated to the other agencies

§Another agency submits an address change

§Result: address gets changed within VRS and DHRM

§Another agency wants an address for a specific user

§Result: return the address for the specific user

§Another agency wants changed addresses after a certain datetime

§Result: return rows of addresses that have been changed after the specified datetime.

11. Development/Technical

High-level description of specific development/technical issues and/or difficulties encountered during coding.

§VRS

§State field can accept an “FC” (foreign country). If this is true country may not be blank.

§Solution: we are not currently using country as part of our schema

§DHRM

§System uses a validation scheme where phone number and address must correspond. For example, a Norfolk address and a Richmond phone number would be kicked out.

§Solution: test data will be created with no phone numbers

12. Protocol/Specification Issues

Issues and/or difficulties specific to designing and coding for XML, SOAP, WSDL, and UDDI.

None

13. Interoperability Issues

Discuss issues and/or difficulties that involve service-to-service interoperability between the various team applications.

None

14. “Best Practice” Comments

Technical or non-technical.

15. Other Concerns/Issues

Other team concerns/issues (technical, organizational, logistical or otherwise).

None

16. Other Comments

Comments on how the team project is going, successes, etc.

§Installation of software is complete at both agencies.

§Review of existing systems is complete at both agencies.

§Connectivity to back-end systems is complete at both agencies

§VRS: GetAddress service has been completed.

§UpdateAddress service is not complete

§DHRM: Mitem will be used as the interface to the Unisys Mainframe. A small java program has been written to test both the Mitem GetAddress functions and the UpdateAddress functions.

§GetAddress is complete

§UpdateAddress is complete

17. Cost/Time Estimate

Track the time the full team spends for 1) Meetings, 2) Development, 3) Training, and 4) Testing.

Task	Time Expended To Date
Meetings	48 hrs
Development	76 hrs
Testing	0 hrs
Training	0 hrs
Total Estimate	**124 hrs**